

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/050405

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H02H5/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H02H H03K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 488 088 A (FUJI ELECTRIC CO LTD) 3 June 1992 (1992-06-03) column 7, line 3 - column 9, line 39; figure 5	1-18
Y	US 5 267 118 A (MARSHALL ANDREW ET AL) 30 November 1993 (1993-11-30) the whole document	1-18
A	US 5 726 481 A (MOODY PAUL T) 10 March 1998 (1998-03-10) abstract; figure 3	1-18

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

24 August 2004

Date of mailing of the international search report

01/09/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Beasley-Suffolk, D

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/050405

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0488088	A	03-06-1992	DE	69132345 D1	07-09-2000
			DE	69132345 T2	29-03-2001
			EP	0488088 A1	03-06-1992
			JP	3132587 B2	05-02-2001
			JP	5129598 A	25-05-1993
			US	5349336 A	20-09-1994
			US	5355123 A	11-10-1994
US 5267118	A	30-11-1993	NONE		
US 5726481	A	10-03-1998	DE	69610068 D1	05-10-2000
			DE	69610068 T2	12-04-2001
			EP	0783766 A2	16-07-1997
			WO	9702592 A2	23-01-1997
			JP	10505714 T	02-06-1998